

CLAIMS

1. An electric motor comprising a housing, including a housing sleeve and a housing cover disposed at the end of the housing sleeve, comprising a rotor, mounted rotatably about a rotor axis in the housing, comprising a stator disposed in the housing with a least one motor winding and comprising an electrical connection unit disposed on the housing, at least one feed line leading from the electrical connection unit to the motor winding running within the housing sleeve.
2. An electric motor according to claim 1, wherein the housing sleeve is made of an insulating material.
3. An electric motor according to claim 1, wherein the housing sleeve is made of plastics.
4. An electric motor according to claim 3, wherein the housing sleeve is made by means of injection molding.
5. An electric motor according to claim 1, wherein the housing sleeve has a sleeve body and at least one rib and that the at least one feed line runs in the region of this rib within the housing sleeve.
6. An electric motor according to claim 5, wherein the at least one rib extends approximately in a direction parallel to the rotor axis.

7. An electric motor according to claim 5, wherein the at least one rib connects the regions of the sleeve body lying on either side of the feed line and stabilizes them in relation to each other.
8. An electric motor according to claim 5, wherein the at least one rib is disposed on an inner side of the sleeve body.
9. An electric motor according to claim 1, wherein the connection unit is associated with a first of the housing covers.
10. An electric motor according to claim 9, wherein the connection unit is mounted on the first housing cover.
11. An electric motor according to claim 1, wherein the connection unit includes a connection board.
12. An electric motor according to claim 1, wherein the stator has a first stator unit arranged facing the first housing cover and a second stator unit disposed on a side of the first stator unit lying opposite the first housing cover and that the feed line running within the housing sleeve leads to the second stator unit.
13. An electric motor according to claim 1, wherein the housing sleeve has a groove accommodating the at least one feed line.
14. An electric motor according to claim 13, wherein the groove runs in the housing sleeve in a direction approximately parallel to the rotor axis.

15. An electric motor according to claim 13, wherein the groove starting at an outer surface of the housing sleeve extends radially inwards into the housing sleeve.
16. An electric motor according to claim 13, wherein the groove runs in the region of the at least one rib of the housing sleeve.
17. An electric motor according to claim 16, wherein the groove penetrates into the sleeve body of the housing sleeve and that the respective rib ensures that the regions of the sleeve body lying on either side of the groove remain stable and connected to each other.
18. An electric motor according to claim 16, wherein the groove substantially penetrates through the sleeve body.
19. An electric motor according to claim 13, wherein the feed line is fixed in the groove.
20. An electric motor according to claim 19, wherein the feed line is fixed in the groove by means of a bonding compound.
21. An electric motor according to claim 13, wherein the groove is sealed by means of a sealing compound.
22. An electric motor according to claim 13, wherein a groove in the first housing cover adjoins the groove in the housing sleeve in exact alignment therewith.

23. An electric motor according to claim 13, wherein the at least one feed line is a winding wire which continues from the motor winding.
24. An electric motor according to claim 1, wherein the at least one feed line is embedded in the material forming the housing sleeve.
25. An electric motor according to claim 24, wherein the at least one feed line is molded into the housing sleeve.
26. An electric motor according to claim 24, wherein the at least one feed line is embedded in the at least one rib.
27. An electric motor according to claim 24, wherein the feed line passes through an opening in one of the housing covers.
28. An electric motor according to claim 24, wherein the feed line is formed as a rigid line section.